SIGNAMAX
CONNECTIVITY SYSTEMS

Signamax™ Connectivity Systems

5 Ports Gigabit Nway Ethernet Switch Model:065-7905A

User's Manual

FCC Warning

This device has been tested and found to comply with limits for a Class B digital device, pursuant to Part 2 and 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiates radio frequency energy and, if not installed and used in accordance with the user's manual, may cause interference in which case user will be required to correct the interference at his own expense.

CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference in which case the user many be required to take adequate measures.

Table Of Contents

Chapter 1 1

Introduction 1

Key Features..... 2

Chapter 2 3

Package Contents 3

Chapter 3 4

Front Panel Layout 4

Ⅰ. 5 RJ-45 Gigabit Switch Ports 4

Ⅱ. LED Indicators of 8 Port Gigabit Switch..... 4

Ⅲ. LED Definitions..... 5

Rear Panel Layout 5

Ⅰ. DC input 5

Ⅱ. Fan.....5

Chapter 4 6

Ⅰ.To connect the Switch to PCs, servers, and other network devices 6

Ⅱ. To connect the Switch to a Switch or a Hub….6

Chapter 5.....7

Ⅰ. Technical Specification 7

Ⅱ.Diagram of extend application by Up-Link.....8

Chapter 1

5 Ports Gigabit Switch

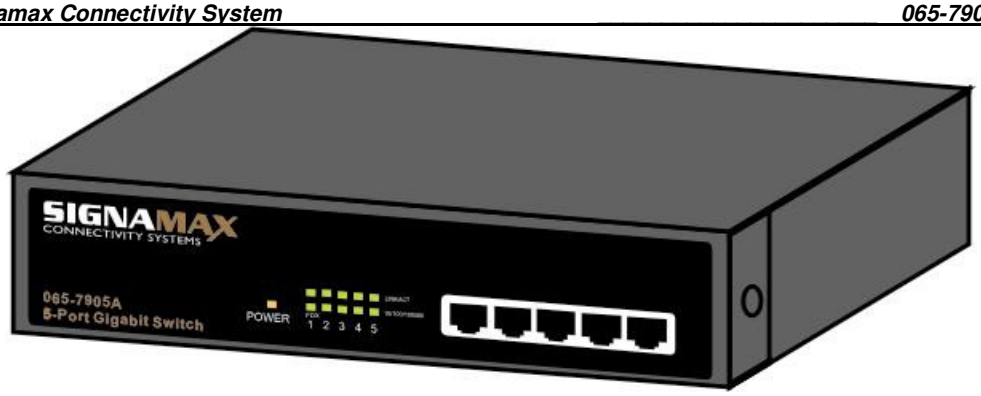
Introduction

065-7905A Switch provides 5 10/100/1000Mbps NWAY RJ-45 ports. It was designed for easy installation and high performance in an environment where traffic on the network and the number of user increase continuously. With newest Gigabit chip set, 065-7905A 9” Gigabit Ethernet switch can fully support highest speed without hanging on problem even when Full-dueplex full loaded.

065-7905A switch also provides automatic crossover detection functionality on each port. It is simple and friendly to up-link to another switch without crossover cable.

No fan need design, no noise.

The compact rigid desktop size was specifically designed for ROBO (Remote Office & Branch Office) and medium to large workgroups. 065-7905A Switch can be installed where space is limited; moreover it provides smooth network migration and easy upgrade to network capacity. The 9” size can be rack-mount on 10” or 19” cabinet.



Key Features

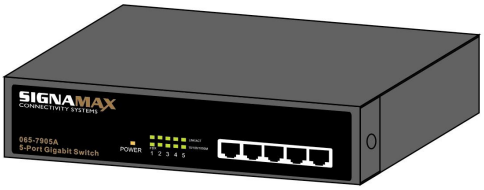
- Complies with the IEEE802.3 Ethernet, IEEE802.3u Fast Ethernet and IEEE 802.3ab Gigabit Ethernet Standards
- Provides five 10/100/1000Mbps Gigabit switching ports
- Performs full wire-speed switching with Head of Line (HOL) blocking prevention.
- Non-blocking & Non-head-of-line blocking full wire speed forwarding.
- Store-and-forward operation support.
- Embedded 3.5Mb SRAM for packet buffer.
- Supports 9728Byte JUMBO packet.
- Provides 4K MAC address entry
- Supports broadcast storm filtering.
- All ports provide Auto-Negotiation and Auto -MDI/ MDI-X functions
- Supports flow control: Back pressure for Half-duplex and IEEE 802.3x for Full-duplex mode
- Status LED: Power per set and 1000M, Link/Activity
- Configurable to 10 full/half duplex, 100 full/half duplex and 1000 full/half duplex for each port
- 9” inch compact size, and can be rack-mount to 10” and 19” with bracket.

Chapter 2

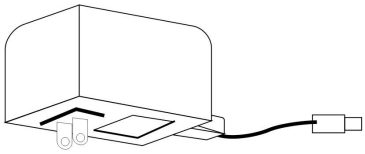
Package Contents

Before you start to install 065-7905A Switch, please verify your package contain the following items:

- One 065-7905A 9” Gigabit Ethernet Switch
- One Power Adapter
- One User’s Manual



5-Port Switch



Power Adapter

CD with User's Manual

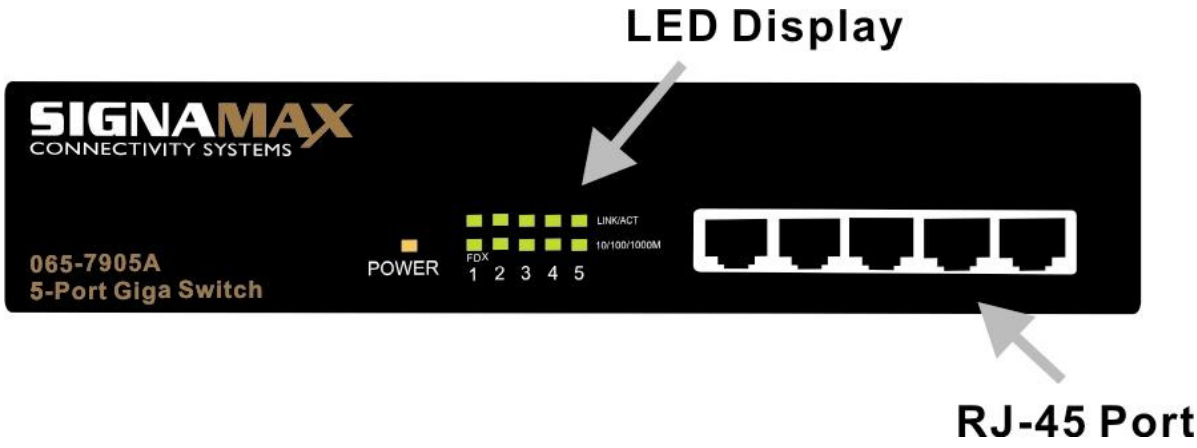
Note: If any of these items is found missing or damaged, please contact your local supplier for replacement.

Chapter 3

Front Panel Layout

Ⅰ. 5 RJ-45 Gigabit Switch Ports

There are 5 RJ-45 connectors on the front panel for connecting to servers, workstation or other devices. 065-7905A Switch provides 5 10/100/1000Mbps switching ports that could sense the 10/100/1000M speed and negotiate Full/Half duplex mode automatically. These switching ports allow users to connect the Switch to 10Base-T, 100Base-TX and 1000Base-T devices.



Ⅱ. LED Indicators of 065-7905A 5 Port Gigabit Switch

LED	Color	Status	Description	No. Of LED
Power	Yellow	On	Power on	Power
1000M	Yellow	On	Link 1000Mbps	5 (1~5)
		off	Link 10/100Mbps	
Link/ ACT	Yellow	On	Link	5 (1~5)
		Flashing	Data activating	5 (1~5)

Ⅲ. LED Definitions

Power LED

On : The unit is powered on and ready for use.

Off : The unit is powered off.

1000M LED

On : The port is operating at 1000Mbps speed.

Off : The port is operating at 10Mbps Half/ Full Dueplex or 100Mbps Half/ Full Dueplex speed

LINK/ACT LED

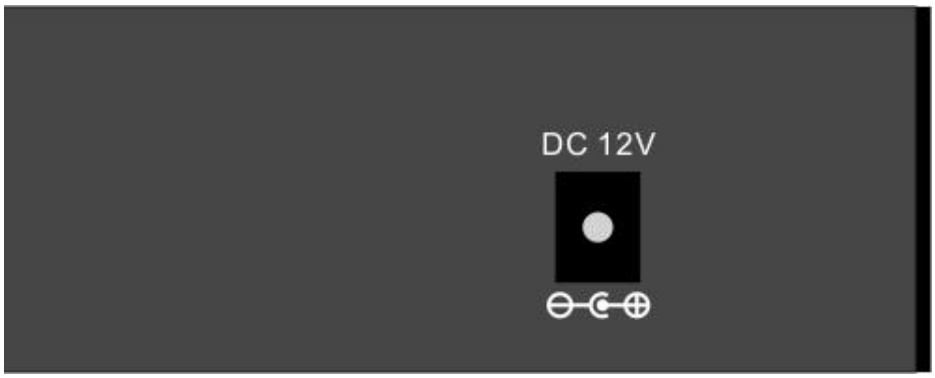
On : The port is ready for 10/100/1000Mbps connection.

Flashing : The data is transmitted or received on the port.

Rear Panel Layout

Ⅰ. DC input

DC input 12V UL Safety

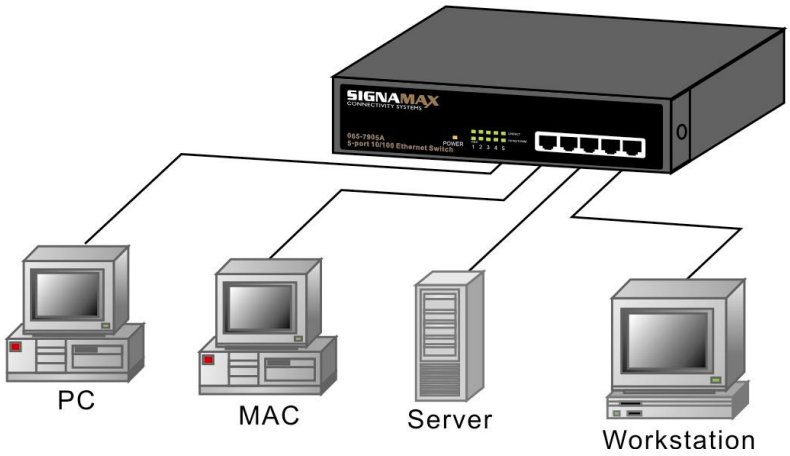


No fan no noise design

Chapter 4

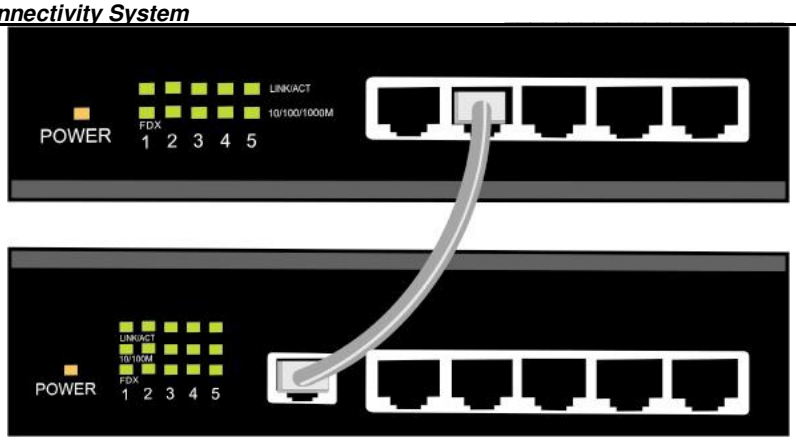
Ⅰ. To connect 065-7905A Switch to PCs, servers, and other network devices

Use straight-through twisted-pair cable (Cat. 5) to connect 065-7905A Switch to PCs, servers and other network devices. Networks can be built as figure shown.



Ⅱ. To connect 065-7905A Switch to a Switch or a Hub

Use straight-through twisted pair cable to connect 065-7905A Switch to another Switch or Hub on uplink port. If you connect 065-7905A Switches on port 1 to port 5, the cable should be changed to crossover cable.



Chapter 5

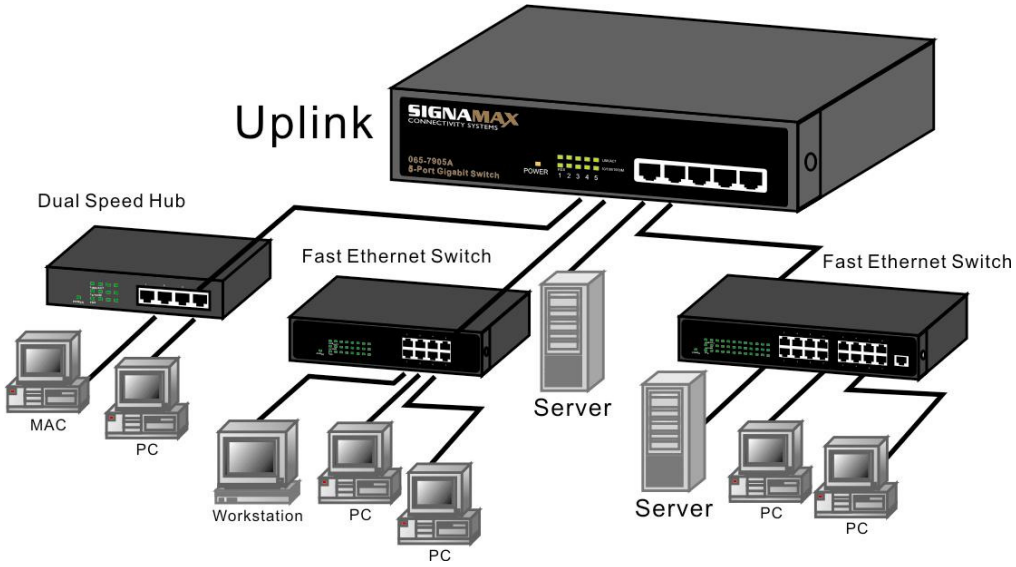
Ⅰ.Technical Specification

1. Standards Compliance
   - IEEE 802.3 10BaseT; IEEE 802.3u 100BaseTX and IEEE 802.3ab 1000BaseT copper over Ethernet
2. Number Of Ports
   - 5 integrated ports (10/100/1000Mbps N-Way port)
3. Fully Flow Control Supported
   - Full-duplex mode: IEEE 802.3x
   - Half-duplex mode: Backpressure
4. Network Transmission Media
   - 10BaseT Cat. 3, 4, 5 UTP/STP
   - 100BaseTX Cat. 5 UTP/STP
   - 1000BaseT Cat. 5 UTP/STP
5. Network Status Monitoring LEDs
   - System: Power
   - Per port: 1000M, Link/ACT.
6. Filter/Forward Rate
   - 10Mbps ports – 14,880pps
   - 100Mbps ports – 148,800pps
   - 1000Mbps ports – 1,488,000pps
7. Buffer Memory
   - RAM: 3.5Mb per device
8. MAC Address

-Up to 4K MAC address entry per device

9. JUMBO packet:
   - Supports 9728Byte
10. Power
   -DC input12V UL Safety
11. Power Consumption
   - 20 Watts (Max)
12. Operating Temperature
   -0℃~ 60℃
12. Store Temperature
   - -20℃~ 90℃
13. Humidity
   - 10% ~ 90% RH (Non-condensing)
14. Dimension (L x W x H)
   - 228mm x 123mm x 44mm
15. Weight
   - 1.6Kg
16. Safety & EMI Certificates
   - CE & FCC-B

Ⅱ. Diagram of extend application by Up-Link


Uplink
SIGNAMAX
CONNECTIVITY SYSTEMS
065-7905A
8-Port Gigabit Switch
POWER
Dual Speed Hub
Fast Ethernet Switch
Fast Ethernet Switch
Server
Server
MAC
PC
Workstation
PC
PC
PC
PC